

Die Casting Hydraulics

QUINTOLUBRIC® 888

INTRODUCTION

An automotive parts manufacturer operated die casting equipment with water glycol (HFC) fire resistant hydraulic fluids. Due to the poor lubricating properties of water glycol fluids, pump wear and pump lifetime were not acceptable so the manufacturer tested QUINTOLUBRIC 888 polyol ester (HFD) fluids as a potential replacement.

IMPACT

	Before (Water Glycol)	After (Quintolubric 888)	Impact
Vane pump wear after 3,000 hours	5,724 mg	509 mg	91% wear reduction
Estimated pump lifetime	2 years	10 years	5 times longer pump life
Estimate seal lifetime	3-4 years	10 years	2 ½ to 3 times longer seal life
Frequency of fluid adjustments	4 times per year	Not needed	Elimination of fluid adjustments
Pump noise	88.0 dB	82.3 dB	Reduction in pump noise
Motor noise	90.2 dB	83.4 dB	Reduction in motor noise
Power consumption	338 kW per pump per day	319 kW per pump per day	5% reduction in power consumption

OTHER BENEFITS

- QUINTOLUBRIC 888 is a synthetic fluid that can be used in equipment designed for traditional mineral oil fluids and provides better performance than fluids containing water.
- In addition to fire resistance, QUINTOLUBRIC 888 provides excellent biodegradability and low aquatic toxicity, making them ideal for use where better environment protection is required.
- QUINTOLUBRIC 888 is unique in the industry because the exact same product is available worldwide. QUINTOLUBRIC 888 outperforms competitive products in fluid life and consistent performance.
- Quaker is recognized as the leader in HFD-U fluids by major equipment builders and end users around the world.
- QUINTOLUBRIC 888 is approved by FM Global (Factory Mutual) as a less hazardous hydraulic fluid.